Client's Ref.: AU0304068 TopTeam

File: 0632-10122USf/Cat/Steve

What Is Claimed Is:

- 1 A direct backlight module comprising:
- 2 a first plate;
- a second plate connected to the first plate forming a space
- 4 between;
- a plurality of light sources disposed in the space; and
- 6 a third plate with a plurality of openings disposed outside
- 7 the space connected to the surface of the first plate.
- 1 2. The backlight module as claimed in claim 1, wherein
- 2 the first plate comprises:
- a plurality of protrusions; and
- a plurality of recesses, wherein the plurality of
- 5 protrusions and recesses are alternately
- 6 arranged, and the plurality of light sources are
- 7 disposed in the plurality of recesses.
- The backlight module as claimed in claim 2, wherein
- 2 the plurality of openings are disposed corresponding to the
- 3 plurality of protrusions and form a plurality of channels.
- 1 4. The backlight module as claimed in claim 3, wherein
- 2 the third plate comprises a plurality of flexible portions
- 3 respectively connected to the sides of the channels.
- 1 5. The backlight module as claimed in claim 3, further
- 2 comprising an enforced heat dissipation device.
- 1 6. The backlight module as claimed in claim 5, wherein
- 2 the enforced heat dissipation device is a fan.

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1 7. The backlight module as claimed in claim 2, wherein

the height of each protrusion is lower than the center line of

- 3 the light sources near the protrusion.
- 1 8. The backlight module as claimed in claim 2, wherein
- the cross-section of the plurality of protrusions and recesses
- 3 is trapezoidal-shaped.
- 1 9. The backlight module as claimed in claim 2, wherein
- the cross-section of the plurality of protrusions and recesses
- 3 is triangular-shaped.
- 1 10. The backlight module as claimed in claim 1, wherein
- 2 the first plate is a reflector plate.
- 1 11. The backlight module as claimed in claim 1, wherein
- 2 the second plate is a diffusion plate.
- 1 12. The backlight module as claimed in claim 1, wherein
- 2 the third plate is a metal plate.
- 1 13. The backlight module as claimed in claim 1, wherein
- 2 the plurality of light sources are lamps.
- 1 14. The backlight module as claimed in claim 1, further
- comprising:
- a first diffuser disposed on the second plate;
- a prism disposed on the first diffuser; and
- a second diffuser disposed on the prism.